Figure 1

Figure 1 (continued)

Figure 2

Spectral data in ethanol

(s: acidified with 1% trifluoroacetic acid; b: basic with 1% triethylamine)

λ_a: Absorbance maximum

 λ_f : Fluorescence maximum

η_f: Fluorescence quantum yield

	Structure	λ_a / nm	λ_f / nm	η, / %
1 NK 50	0 CH ₃ COOH CH ₃ C ₂ H ₅ C ₂ H ₅	561	585	48
, 2 NK 51	H ₃ C CH ₃ CCH ₃ H ₃ C CH ₃ H ₁ C CH ₃ H ₁ C CH ₃ H ₁ C CH ₃ H ₂ C CH ₃ H ₃ C CH ₃ H ₃ C CH ₃ H ₃ C CH ₃ H ₄ C CH ₃ H ₅ C CH ₅ H ₇ C CH ₅	536	563	92
3 NK 54	CI CI CI CI CH ₂) ₃ COOH CH ₃ + C ₂ H ₅	584	606	35
4 NK 56	0 (CH ₂) ₃ COOH C-N CH ₃	566, s 622, b	650, b	40
5 NK 57	CI CI (CH ₂) ₃ COOH O N - CH ₃ CH ₃ CI + CH ₃	624	650	88

Figure 2 (continued)

6 NK 58	H ₅ C ₂ -C ₂ H ₅ C ₂ H ₅	562	586	46
7 NK 59	H ₃ C CH ₃ H _N C	535	565	92
8 NK 60	C1 C1 C1 C1 C00H	584	605	34
9 NK 61	CH ₃ CI COOH CH ₃ CI CH ₃	625	655	89
10 NK 62	H ₅ C ₂ N O COOH	565, s 623, b	650, ъ	40
11 NK 63	H ₃ C ₂ H ₃ C ₂ H ₃	615	680	10
12 NK 64	H ₃ C COOH	614	677	9

Figure 2 (continued)

				
13 NK 65	H ₃ C + H ₃ C CH ₃ CH ₃	618	650	66
14 NK 66	H ₃ C + H ₃ C CH ₃ CH ₃ CH ₃	618	648	65
15 NK 76	H ₅ C ₂ H ₅ C ₂ H ₅ C ₂ H ₅	563	586	46
16 NK 77	H ₅ C ₂ H ₅ C ₂ H ₅ C ₂ H ₅	561	585	48
17 NK 78	CI C	619	644	69
18 NK 136	N-(CH ₃) ₃ COOH	512, b	530, b	85
19 NK 106	-OHOCH _O	530	556	20

Figure 2 (continued)

	T	1	T	т
20 NK 80	О (CH ₂) ₃ СООН	645, b	700 , ь	16
21 NK 81	Н ₅ С ₂ -Н ₅ (СН ₂) ₃ СООН	520, b	545, b	80
22 NK 82	CI CI (CH ₂) ₃ COOH CI CI (CH ₂) ₃ COOH CH ₂ SO ₃ H CH ₂ SO ₃ H CH ₂ SO ₃ H CH ₃ C CH ₃ CH ₃ C	624	. 644	89
23 NK 83	H ₂ N CCH ₂) ₃ COOH CH ₃ + NH ₂ N SO ₃ H SO ₃ H	496	519	80
24 NK 107	С- _N -(СН ₂) ₃ ССООН (СН ₃) + Н	552	•	0,5
25 NK 84	Сн ₂) ₃ СООН Сн ₃ + + + + + + + + + + + + +	573	595	92

Figure 2 (continued)

26 NK 85	CH ₃ (CH ₂) _C COOH (CH ₂) _C COOH (CH ₃) _C CH ₃ (CH ₃) _C CH ₃ (CH ₃) _C COOH (CH ₃) _C COOH (COOH	601	627	88
27 NK 86	H ₃ C N CH ₃);COOH CH ₃ CH ₃ CH ₃	575	600	45
28 NK87	H ₃ C N CH ₃ CH ₃	580	-	0
29 NK 88	СН ₃) ₃ СООН	570, b	-	0
30 NK 89	CH ₃),COOH CH ₃ CH ₅ C ₂ H ₅ C ₂ H ₅	640	-	0
31 NK 90	H ₅ C ₂ -N ₃ C ₂ H ₅ C ₂ H ₅	565	590	55
32 NK 108	H ₃ C (CH ₂) ₃ COOH C-N-CH ₃ CH ₃	538	560	90

Figure 2 (continued)

33 NK 91	H ₅ C ₂ , N C ₂ H ₅	575	605	35
34 NK 92	CI C	585	615	30
35 NK 109	CI CI CI CI CI CI (CH ₂) ₃ COOH H ₃ C CH ₃ H	562	594	80
36 NK 93	Br Br Br Br CCH3)3COOH H3C2H3 C2H3	581	610	30
37 NK 94	H ₅ C ₂ -N ₂ -C ₂ H ₅ CH ₂) ₃ COOH CH ₃ †, C ₂ H ₅ C ₁ H ₅	558	580	48
38 NK 95	H ₅ C ₂ H ₅ C ₂ H ₅	558	580	48

Figure 2 (continued)

39 NK 110	H ₁ C (CH ₂) ₁ CCOOH (CH ₃) (CH ₃)	533	560	87
40 NK 96	CI CI (CH ₂) ₃ COOH CI CI CI (CH ₂) ₃ COOH H ₃ C ₂ N C ₃ H ₃ C ₃ H ₃	570	597	45
41 NK 99	H ₃ C ₂ H ₃ C ₂ H ₃	556	578	35
42 NK 102	H ₅ C ₂ , H ₅ C ₂ H ₅ C ₂ H ₅	562	590	45
43 NK 103	H ₅ C ₂ H ₅ C ₂ H ₅	562	590	45
44 NK 104	О ₂ N О ₂ N (CH ₂) ₃ CООН СН ₃ + С ₂ H ₃	557	575	1

Figure 2 (continued)

45 NK 105		CH-y-coon	573	596	92
--------------	--	-----------	-----	-----	----

Figure 3

Spectral data in ethanol

λ_a: Absorbance maximum

 λ_f : Fluorescence maximum

 $\eta_{\mathbf{f}}$: Fluorescence quantum yield

	Structure	λ_a / nm	$\lambda_{\rm f}/{\rm nm}$	$\eta_{\rm f}/\%$
46 NK 47	H ₅ C ₂ -N ₅ C ₂ H ₅ C ₂ H ₅ C ₂ H ₅ C ₂ H ₅	563	588	47
47 NK 48	C ₂ H ₅ C ₂	536	565	92
48 NK 52	C_1 C_2H_5 C_2H_5 C_2H_5 C_2H_5 C_2H_5 C_2H_5	585	607	34

Figure 3 (continued)

49 NK 53	CI C	626	648	87
50 NK 55	H ₅ C ₂ H ₅ C ₂ H ₅ O	562, s 623, b	650, b	40
51 NK 67	H ₅ C ₂ -t ₃ C ₃ H ₅ C ₃ H ₅	561	585	46
52 NK 68	H ₅ C ₂ - H ₅ C ₂ H ₅ C ₂ H ₅	563	585	47
53 NK 70	H ₅ C ₂ -N ₃ C ₂ H ₅	563	584	46
54 NK 71	H ₅ C ₂ H ₄ OH + C ₂ H ₄ OH	559	583	45
55 NK 97	H ₅ C ₂ H ₄ SO ₃ H C ₂ H ₄ SO ₃ H C ₂ H ₄ SO ₃ H + C ₂ H ₅ C ₂ H ₅	562	586	47

Figure 3 (continued)

56 NK 98	H ₅ C ₂ -N-C ₂ H ₅ C ₂ H ₅ C ₁₈ H ₃₇ C _{H3} + C ₂ H ₅ C ₂ H ₅	563	586	48
57 NK 100	H ₅ C ₂ H ₅ C ₁₀ H ₂₁ C ₁₀ H ₂₁ + C ₂ H ₅ C ₂ H ₅	562	585	48 [°]
58 NK 101	H ₅ C ₂ -N _{C₂H₅} C ₂ H ₅ C ₂ H ₅ C ₂ H ₅	562	585	48

Figure 4

	Structure
59 NK 69	C ₂ H ₅
60 NK 72	C ₂ H ₅ C ₂

Figure 5

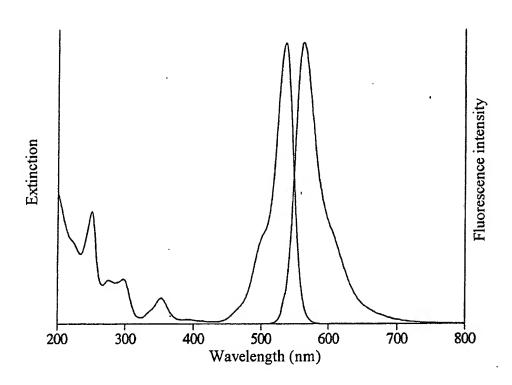


Figure 6

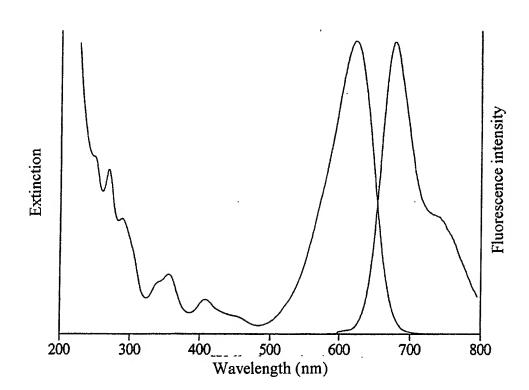


Figure 7

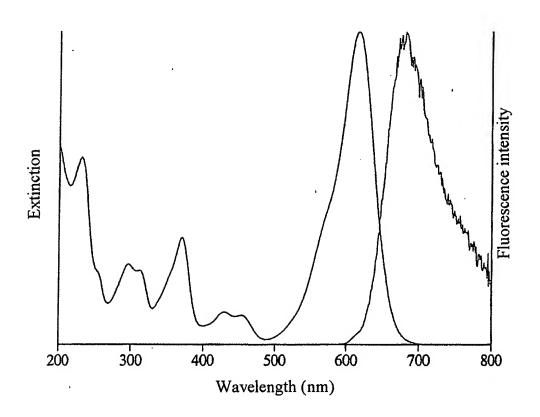


Figure 8

